What is claimed is:

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- 1 1. A speech application system, comprising:
 - A. a speech recognition (SR) system configured to receive an audio input and generate a set of semantic data representing a plurality of valid interpretations of said audio input;
 - B a speech application script, loaded at the SR system and configured to task said SR system, said application script defining a context;
 - C. a semantic data evaluator, configured to receive said set of semantic data and said context and, as a function thereof, to generate a linguistic result corresponding to said audio input, and to return said linguistic result to said application script; and
 - D. a set of reusable object oriented interfaces local to the SR system, said interfaces configured to interface said application script with said SR system.
 - A system as in claim 1, wherein one or more of said application script is included in a
 Web page.
- A system as in claim 1, wherein one or more of said interfaces are objects exposed via

 ActiveX facilities.
 - 4. A system as in claim 1, wherein said application script includes programming code

2		written in a language chosen from a group of scripting languages comprising		
3		(1) Jscript;		
4		(2) PerlScript; and		
5		(3) VBscript.		
1 2	5.	A system as in claim 1, wherein said set of semantic data is represented as a semantic tree instance.		
1 8""H H"H E"B -H	6.	A system as in claim 1, wherein said set of semantic data is represented in a semantic object.		
2 1 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.	A system as in claim 1, wherein said audio input is received from a device chosen from a group comprising: A. a telephone; B. a cellular telephone;		
5 min ===================================		C. a personal computer;D. an application server; andE. an audio receiver.		
1 2 3	8.	A system as in claim 1, wherein said audio input is received via a network comprised of one or more wire or wireless networks from a group comprising: A. a telephone network;		
4		B. a cellular telephone network;		

C. a LAN; 5 D. a WAN; 6 E. a virtual private network; 7 F. the Internet; and 8 G. the Web. 9 9. A system as in claim 1, wherein said plurality of valid interpretations of said audio 1 input includes all valid interpretations of said audio input within said context. 2 10. A system as in claim 1, wherein speech application is chosen from a group of interactive speech applications comprising: Α. consumer survey applications; B. Web access applications; C. educational applications, including health education applications and computerbased lesson applications and testing applications; screening applications, including patient screening applications and consumer D. screening applications; 8 E. health risk assessment applications; 9 monitoring applications, including heath data monitoring applications and F. 10 consumer preference monitoring applications; 11 G. compliance applications, including applications that generate notifications of 12

compliance related activities, including notifications regarding health or product

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- H. test results applications, including applications that provide at least one of lab test results, standardized tests results, consumer product test results, and maintenance results; and
- I. linking applications, including applications that link two or more of the applications in parts A through H.

11. A speech application system comprising:

- A. a speech recognition (SR) system hosted on a first computer and configured to receive an audio input from an input device and to generate one or more semantic objects representing a plurality of valid interpretations of said audio input;
- B a Web page loaded on said first computer, from a second computer, said Web page including an application script comprising a set of speech application functionality and configured to interact with said input device via said SR system, wherein said speech application is configured to conduct speech application sessions without accessing said second computer;
- C. a set of reusable object oriented interfaces local to the first computer, said interfaces including:
 - one or more interface objects configured to facilitate access by said application script to standard services of said first computer; and
 - (2) a semantic interface configured to facilitate access to and control of said

SR system by said application script; and 16 a semantic object evaluator, configured to generate from said semantic objects, D. 17 as a function of said context, a single interpretation of said audio input and to 18 return said single interpretation to said application script. 19 A system as in claim 11, wherein speech application is chosen from a group of 12. 1 interactive speech applications comprising: A. consumer survey applications; 3 В. Web access applications; C. educational applications, including health education applications and computerbased lesson applications and testing applications; screening applications, including patient screening applications and consumer D. 7 TU screening applications; E. health risk assessment applications; monitoring applications, including heath data monitoring applications and F. consumer preference monitoring applications; 11 compliance applications, including applications that generate notifications of G. 12 compliance related activities, including notifications regarding health or product 13 maintenance; 14 H. test results applications, including applications that provide at least one of lab 15 test results, standardized tests results, consumer product test results, and 16

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maintenance results; and

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- I. linking applications, including applications that link two or more of the applications in parts A through H.
- 1 13. A system as in claim 11, wherein said set of reusable objet oriented interfaces and said semantic object evaluator are objects exposed via ActiveX facilities.
 - 14. A speech application script included within a Web page, and configured to interact with a SR system hosted on a first computer and configured to receive an audio input and to generate one or more semantic objects representing a plurality of valid interpretations of said audio input, said first computer also including a plurality of interfaces objects and a semantic object evaluator configured to generate from said one or more semantic objects a single interpretation of said audio input as a function of a context, said speech application script comprising:
 - A. a context definition;
 - B. a link to said semantic object evaluator;
 - C. a link to said SR system, via a semantic interface object, from said plurality of interface objects;
 - D. a set of control functionality comprising:
 - a session manager configured to generate user prompts and to determine
 a next action as a function of said single interpretation;
 - (2) a SR system controller, configured to task said SR system; and
 - (3) a communication manager, configured to manage interaction with said

17				input device via said SR system,				
18			wherein said speech application script is loaded on said first computer from a second					
19			computer and said speech application is configured to conduct speech application					
20			sessio	ns without accessing said second computer.				
1		15.	A system as in claim 14 wherein said interface objects are objects exposed via ActiveX					
2			facilities.					
1	g tag	16.	A application script as in claim 14 wherein said speech application script is a speech					
2			application chosen from a group of interactive speech applications comprising:					
3	Here of Here with the Here		A.	consumer survey applications;				
4			В.	Web access applications;				
5	3		C.	educational applications, including health education applications and computer-				
6	1 G 16.2 G. 15.9			based lesson applications and testing applications;				
7	TH 119 K		D.	screening applications, including patient screening applications and consumer				
8	454 mg.			screening applications;				
9			E.	health risk assessment applications;				
10			F.	monitoring applications, including heath data monitoring applications and				
11				consumer preference monitoring applications;				
12			G.	compliance applications, including applications that generate notifications of				
13				compliance related activities, including notifications regarding health or product				
14				maintenance:				

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- H. test results applications, including applications that provide at least one of lab test results, standardized tests results, consumer product test results, and maintenance results; and
- linking applications, including applications that link two or more of the applications in parts A through H.
- 17. A method of performing a speech application session, wherein a SR system is hosted on a first computer and includes a means to receive an audio input, said method comprising:
 - A. receiving said audio input by said SR system;
 - B. loading a Web page including an application script on said first computer, said application script including a set of functionality configured to manage a speech application session and control said SR system, without accessing functionality from a second computer;
 - C. establishing a set of standard interfaces between said SR system and said application script, including establishing a semantic evaluator;
 - in response to tasking by said application script, generating by said SR system
 one or more semantic objects representing all possible interpretations of said
 audio input;
 - E. in response to receiving a context defined by said application script, determining by said semantic evaluator a single semantic interpretation from said one or more semantic objects; and

- F. determining a next action by said application script as a function of said single semantic interpretation.
- 18. A method of configuring a speech application system, wherein a SR system is hosted on a first computer and includes a means to receive an audio input, said method comprising:
 - A. generating a Web page on a second computer;
 - B. defining a speech application script including a set of functionality configured to manage a speech application session and control said SR system, without accessing functionality from said second computer;
 - C. integrating said application script into said Web page;
 - D. loading said Web page, including said application script, from said second computer to said first computer; and
 - E. establishing a set of standard interfaces between said application script and saidSR system.